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Abstract of Disclosure

A phoneme dividing method using a multilevel neural network applied to a phoneme dividing apparatus having a voice input portion, a preprocessor, a multi-layer perceptron (MLP) phoneme dividing portion, and a phoneme border outputting portion includes the steps of: (a) sequentially segmenting and framing voice with digitalized voice samples, extracting characteristic vectors by vocal frames, and extracting an inter-frame characteristic vector of the difference between nearby frames of the characteristic vectors by frames, to thereby normalize the maximum and minimum of the characteristics; (b) storing information on the weight obtained through learning and the standard of the MLP; and (c) reading the weight obtained in the step (b), receiving the characteristic vectors, performing an operation of phoneme border discrimination to generate an output value, discriminating the phoneme border according to the output value, and if the current analyzed frame arrives two frames preceding the final frame of incoming voice, outputting a frame number indicative of the border of phoneme as a final result.